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10/720,503	11/24/2003	Bertrand Haas	F-745	4579
Pittney Bowes	7590 11/20/200 Inc	8	EXAM	INER
Intellectual Property and Technology Law Dept.			HENNING, MATTHEW T	
35 Waterview P.O. Box 3000			ART UNIT	PAPER NUMBER
Shelton, CT 06			2431	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/720,503 HAAS, BERTRAND Office Action Summary Examiner Art Unit MATTHEW T. HENNING 2431 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 October 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4-9 and 11-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1.2.4-9 and 11-19 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 24 November 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date \_\_\_\_\_\_.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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1 This action is in response to the communication filed on 10/7/2008. 2 DETAILED ACTION Continued Examination Under 37 CFR 1.114 3 4 A request for continued examination under 37 CFR 1.114, including the fee set forth in 5 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is 6 eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) 7 has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 8 37 CFR 1.114. Applicant's submission filed on 9/9/2008 has been entered. 9 Claims 1-2, 4-9, and 11-19 have been examined. 10 Response to Arguments 11 Applicant's arguments filed 9/9/2008 have been fully considered but are moot in view of 12 the new grounds of rejection presented below. 13 All objections and rejections not set forth below have been withdrawn. 14 15 Claim Rejections - 35 USC § 103 16 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 17 obviousness rejections set forth in this Office action: 18 A patent may not be obtained though the invention is not identically disclosed or 19 described as set forth in section 102 of this title, if the differences between the subject matter 20 sought to be patented and the prior art are such that the subject matter as a whole would have 21 been obvious at the time the invention was made to a person having ordinary skill in the art to 22 which said subject matter pertains. Patentability shall not be negatived by the manner in which 23 the invention was made. 24 25

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over Carr et al. (US Patent Application Publication 2003/0130954) hereinafter referred to as Carr, and further in view of Ur et al. (US Patent Number 5,813,771) hereinafter referred to as Ur. Regarding claim 1, Carr disclosed a method for producing watermarked digital image data comprising: providing digital image data that represents an image (Carr Paragraph 0025); applying a digital watermark to the digital image data to produce watermarked digital image data (Carr Paragraph 0026); and printing an image on the basis of the watermarked digital image data (Carr Paragraph 0014), but Carr failed to disclose and applying a transformation to the watermarked digital image data to improve the quality of the digital image data to be printed and to produce transformed watermarked digital image data, the transformation being at least approximately an inverse of a print-scan distortion transformation. Carr also teaches scanning the watermarked digital image (Carr Paragraph 0052). Ur teaches that printing and scanning introduce transformations into the image being printed and scanned (Ur Col. 2 Lines 30-32). Ur further teaches a method of measuring the introduced transformation to produce a transformation which compensates for the introduced distortion (Ur Col. 6 Line 61 - Col. 7 Line 5). Further, Ur teaches to apply these compensation transformations prior to printing (Ur Col. 9 Lines 28-34). It would have been obvious to the ordinary person skilled in the art at the time of

invention to have employed the teachings of Ur in the watermark printing and scanning system

prior to printing the image. This would have been obvious because the ordinary person skilled in

of Carr by applying a printer/scanner combination transformation to the watermarked image

Claims 1-2, 4-9, and 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable

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the art would have been motivated to correct any distortion introduced to the image by the printer and scanner.

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Regarding claim 11, Carr disclosed a method for producing watermarked digital image data comprising: providing watermark data that represents a digital watermark (Carr Paragraph 0026); providing digital image data that represents an image (Carr Paragraph 0025); and combining the watermark data with the digital image data to produce watermarked digital image data that is printed (Carr Paragraph 0026 and 0014), but Carr failed to disclose applying a transformation to the watermark data to improve the quality of the digital image data to be printed and produce transformed watermark data, the transformation being at least approximately an inverse of a print-scan distortion transformation. Carr did, however, disclose the watermark being fragile and that preferably the watermark data be hidden without leaving human-apparent evidence of alteration.

Ur teaches that printing and scanning introduce transformations into the image being printed and scanned (Ur Col. 2 Lines 30-32). Ur further teaches a method of measuring the introduced transformation to produce a transformation which compensates for the introduced distortion (Ur Col. 6 Line 61 - Col. 7 Line 5). Further, Ur teaches to apply these compensation transformations prior to printing (Ur Col. 9 Lines 28-34).

It would have been obvious to the ordinary person skilled in the art at the time of invention to have employed the teachings of Ur in the watermark printing and scanning system of Carr by applying a printer/scanner combination transformation to the watermark. This would have been obvious because the ordinary person skilled in the art would have been motivated to correct any distortion introduced to the watermark by the printer and scanner.

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It further would have been obvious to the ordinary person skilled in the art at the time of

invention to only apply the transformation to the watermark data. This would have been obvious

because the ordinary person skilled in the art would have been motivated to leave as little

human-apparent evidence of alteration as possible.

quality of the digital image data to be printed.

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Regarding claim 19, Carr disclosed a method comprising; (a) providing digital image data that represents an image (See Carr Paragraphs 0025-0026 marketing image); (b) applying a digital watermark to the digital image data to produce watermarked digital image data (See Carr Paragraph 0026); (d) retrieving a characteristic of the watermark (See Carr Paragraph 0028); (e) printing an image on the basis of the watermarked digital image data produced at step (b) (See Carr Paragraph 0014); (f) scanning the printed image to produce scanned image data (See Carr Paragraph 0036); (g) retrieving a characteristic of the watermark as represented by the scanned image data produced at step (f) (See Carr Paragraph 0036); and (h) comparing the characteristic retrieved at step (d) with the characteristic retrieved at step (g) (See Carr Paragraph 0028); but Carr failed to disclose step (c) applying a print-scan distortion transformation to the watermarked digital image data to produce transformed watermarked digital image data that improves the

Ur teaches that printing and scanning introduce transformations into the image being printed and scanned (Ur Col. 2 Lines 30-32). Ur further teaches a method of measuring the introduced transformation to produce a transformation which compensates for the introduced distortion (Ur Col. 6 Line 61 - Col. 7 Line 5). Further, Ur teaches to apply these compensation transformations prior to printing (Ur Col. 9 Lines 28-34).

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1 It would have been obvious to the ordinary person skilled in the art at the time of
2 invention to have employed the teachings of Ur in the watermark printing and scanning system
3 of Carr by applying a printer/scanner combination transformation to the watermark. This would
4 have been obvious because the ordinary person skilled in the art would have been motivated to
5 correct any distortion introduced to the watermark by the printer and scanner.

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17 18 Regarding claim 2, Carr and Ur teach applying the print-scan distortion transformation to the digital image data prior to embedding the watermark in the digital image data (Ur Fig. 3 and associated text).

Regarding claim 4, Carr and Ur disclosed scanning the printed image to produce scanned image data (Carr Paragraph 0036).

12 Regarding claim 5, Carr and Ur disclosed analyzing the scanned image data to retrieve
 13 the watermark therein (Carr Paragraph 0036).

14 Regarding claims 6 and 15, Carr and Ur disclosed loading the transformed watermarked
 15 digital image data into a postage meter (Carr Paragraph 0026).

Regarding claims 7 and 16, Carr and Ur disclosed using the postage meter to print a postage meter indicia on a mail piece, the postage meter indicia including a printed image based on the transformed watermarked digital image data (Carr Paragraph 0025).

19 Regarding claims 8 and 17, Carr and Ur disclosed scanning the printed image to produce
 20 image data (Carr Paragraph 0036).

21 Regarding claims 9 and 18, Carr and Ur disclosed analyzing the scanned image data to
22 retrieve the watermark therein (Carr Paragraph 0036).

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Regarding claim 12, Carr and Ur taught printing an image on the basis of the
watermarked digital image data (See Carr Paragraph 0014).

Regarding claim 13 Carr and Ur taught scanning the printed image to produce scanned
 image data (See Carr Paragraph 0036).

Regarding claim 14, Carr and Ur taught analyzing the scanned image data to retrieve the
 watermark therein (See Carr Paragraph 0036).

## 7 Conclusion

8 Claims 1, 2, 4-9, and 11-19 have been rejected.

9 The prior art made of record and not relied upon is considered pertinent to applicant's 10 disclosure.

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to MATTHEW T. HENNING whose telephone number is
(571)272-3790. The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Primary Examiner, Art Unit 2431

1 Information regarding the status of an application may be obtained from the Patent 2 Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished 3 4 applications is available through Private PAIR only. For more information about the PAIR 5 system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR 6 system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would 7 like assistance from a USPTO Customer Service Representative or access to the automated 8 information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000. 9 10 11 /Matthew T Henning/ 12 Examiner, Art Unit 2431 13 /Christopher A. Revak/